



# Parcel C Remedial Action



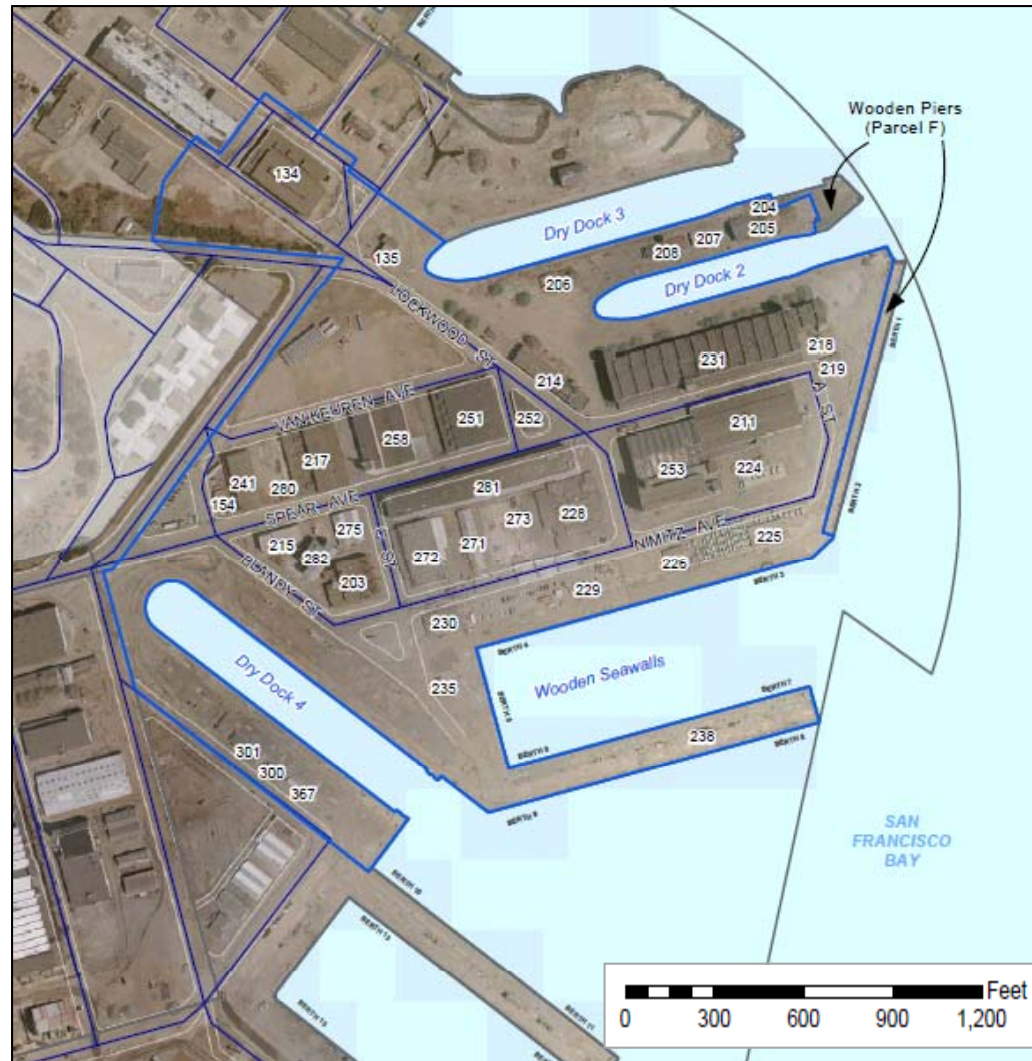
## Remedial Unit C2 (RU-C2) Hunters Point Naval Shipyard San Francisco, California

**Lora Battaglia**  
Project Manager  
Support Contractor to NAVFAC BRAC PMO  
BRAC Program Management Office West

**BCT Meeting, April 25, 2013**



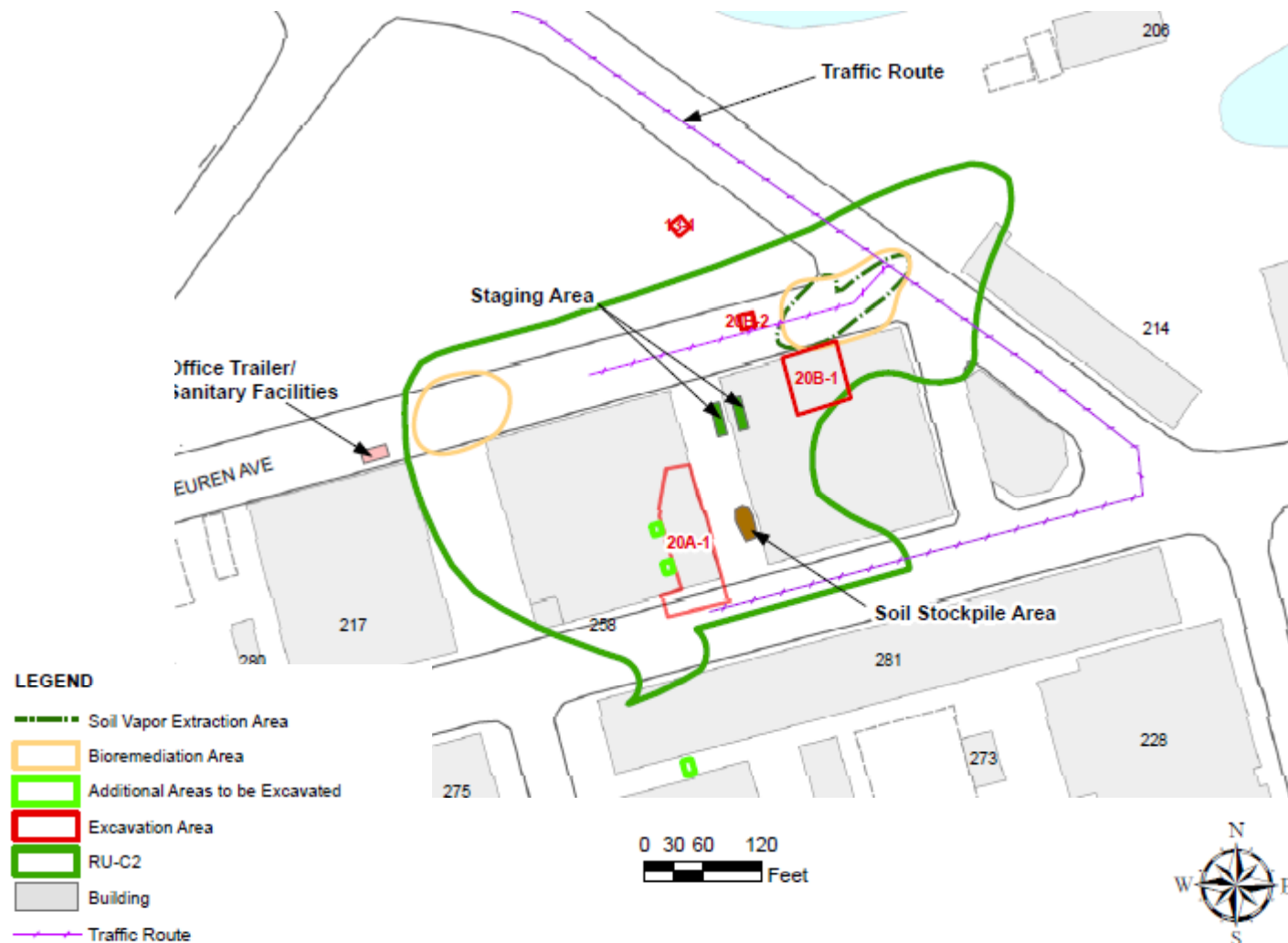
# Parcel C Map



- Parcel C Boundary
- 231 Building Number



# RU-C2 Map





# RU-C2 Update

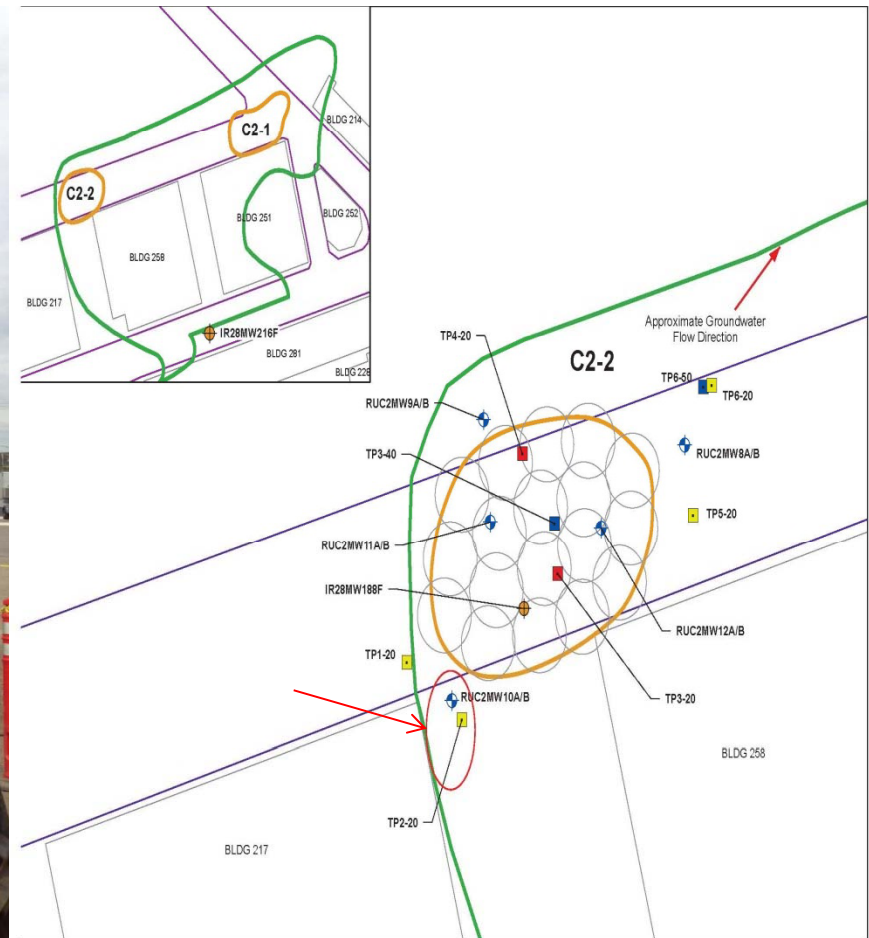


- Final WP issued March 14, 2013
- Field work began on March 18, 2013
  - Decommissioned 6 temporary monitoring wells at Building 258
  - Installed 5 monitoring well pairs (shallow [20'] and deep [50']) at Building 258
  - Installed 5 soil vapor probe pairs (shallow [2-3.5] and deep [4-6]) at Building 251
  - Installed 6 SVE wells at Building 251 [2- 6']
  - Installed 8 monitoring well pairs (shallow [20'] and deep [50']) at Building 251
  - Developed 13 monitoring wells
- Groundwater sampling began on April 23, 2013 and will continue to May 3, 2013.





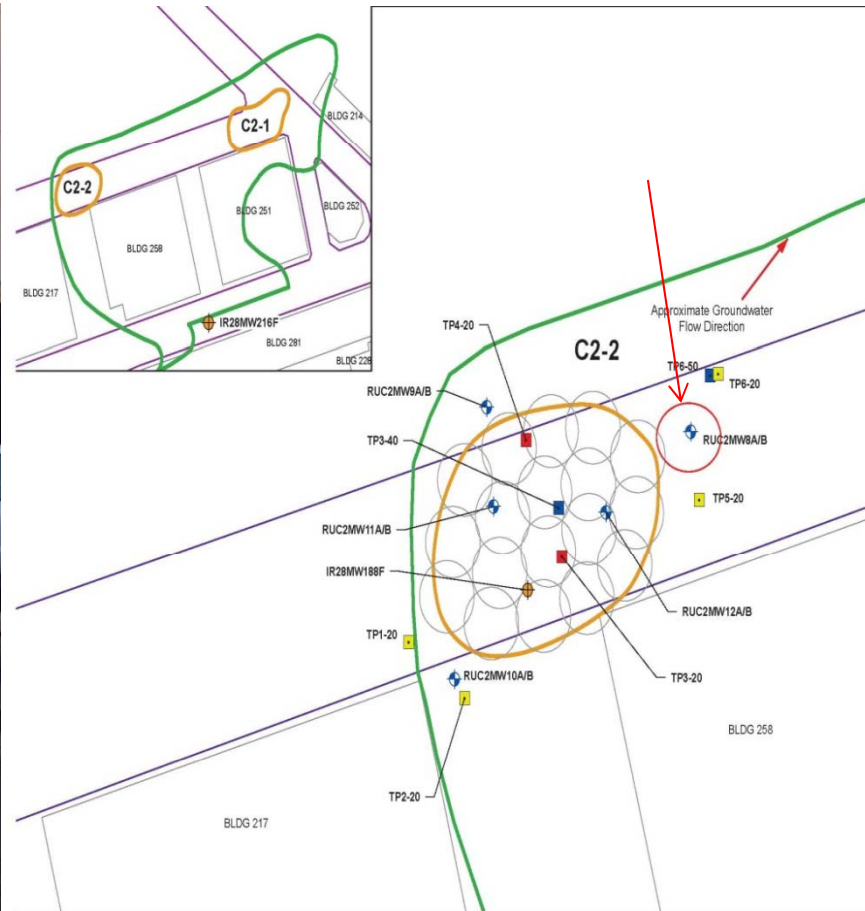
# RU-C2 – Temporary Well Decommissioning



Well decommissioning activities at Building 251 (C2-2 Plume) – Temporary Well TP-20. Temporary wells were over drilled using roto sonic technology.



# RU-C2 – Monitoring Well Installation



Installation of Monitoring Well RUC2MW8B at Building 258. Bedrock wells were drilled using roto sonic technology.







# RU-C2 – Monitoring Well Development



## Well Development at RUC2MW8B

Monitoring wells were developed employing the following methods:

- Wells were first bailed to remove coarse material.
- Simultaneously bailed and purged using an actuator across the entire screen interval in two foot increments.
- Surged with a 3" surge block.
- Continue bailing and purging with actuator.

Well development continued until 5 well volumes were removed and/or water quality parameters stabilized.





# RUC2 – Groundwater Sampling



## Groundwater Sampling

- Groundwater sampling is scheduled to commence on April 23rd and continue for approximately two weeks.
- Beginning at C2-2 (Building 258) then moving to C2-1.





## RU-C2 -Schedule



### Schedule

- Monitoring well, SVE well, and soil vapor probe installation (completed)  
3/18/1013 – 4/23/2013
- Baseline groundwater sampling – 4/23/2013 – 5/3/2013
- Excavations – 5/20/2013
- Installation of SVE system – 6/03/2013 – following excavation 20B-1 which is adjacent to the SVE area
- ISB injections 5/6/2013 – 5/20/2013
- Bio-augmentation injections – 6/20/2013
- Groundwater sampling (1 month post injection event) – week of 6/17/2013  
(additional events 3, 6, 9, and 12 months after injections)



# Questions

